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NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 NOV 21 CAS patent coverage to include exemplified prophetic  
substances identified in English-, French-, German-,  
and Japanese-language basic patents from 2004-present  
NEWS 3 NOV 26 MARPAT enhanced with FSORT command  
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NEWS 10 JAN 07 WPIDS, WPINDEX, and WPIX enhanced Japanese Patent  
Classification Data  
NEWS 11 FEB 02 Simultaneous left and right truncation (SLART) added  
for CERAB, COMPUAB, ELCOM, and SOLIDSTATE  
NEWS 12 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING  
NEWS 13 FEB 06 Patent sequence location (PSL) data added to USGENE  
NEWS 14 FEB 10 COMPENDEX reloaded and enhanced  
NEWS 15 FEB 11 WTEXTILES reloaded and enhanced  
NEWS 16 FEB 19 New patent-examiner citations in 300,000 CA/CAPlus  
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NEWS 17 FEB 19 Increase the precision of your patent queries -- use  
terms from the IPC Thesaurus, Version 2009.01  
NEWS 18 FEB 23 Several formats for image display and print options  
discontinued in USPATFULL and USPAT2  
NEWS 19 FEB 23 MEDLINE now offers more precise author group fields  
and 2009 MeSH terms  
NEWS 20 FEB 23 TOXCENTER updates mirror those of MEDLINE - more  
precise author group fields and 2009 MeSH terms  
NEWS 21 FEB 23 Three million new patent records blast AEROSPACE into  
STN patent clusters  
NEWS 22 FEB 25 USGENE enhanced with patent family and legal status  
display data from INPADOCDB  
NEWS 23 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display  
formats

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FILE 'REGISTRY' ENTERED AT 13:54:07 ON 08 MAR 2009  
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STRUCTURE FILE UPDATES: 6 MAR 2009 HIGHEST RN 1116745-20-0  
 DICTIONARY FILE UPDATES: 6 MAR 2009 HIGHEST RN 1116745-20-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

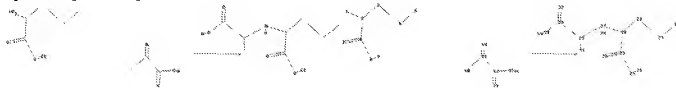
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<http://www.cas.org/support/stngen/stdoc/properties.html>

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chain nodes :  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 19 20 21 22 23 24 25  
 26 27 28 29 30 31 32 33 34



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 FULL SEARCH INITIATED 13:54:44 FILE 'CASREACT'  
 SCREENING COMPLETE - 5685 REACTIONS TO VERIFY FROM 300 DOCUMENTS

100.0% DONE 5685 VERIFIED 4 HIT RXNS 4 DOCS  
 SEARCH TIME: 00.00.03

L2 4 SEA SSS FUL L1 ( 4 REACTIONS)

=> d ibib abs fhlt 1-  
 YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

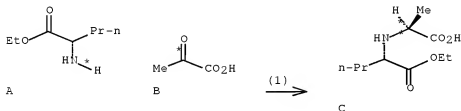
L2 ANSWER 1 OF 4 CASREACT COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 144:331697 CASREACT Full-text  
 TITLE: An improved process for the preparation of  
 N-[1(S)-(ethoxycarbonyl)butyl]-L-alanine  
 INVENTOR(S): Chava, Satyanaryana; Bandari, Mohan; Mathuresh, Kumar  
 Sethi  
 PATENT ASSIGNEE(S): Matrix Laboratories Ltd., India  
 SOURCE: PCT Int. Appl., 9 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006006183	A2	20060119	WO 2005-IN225	20050704
WO 2006006183	A3	20070531		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				

IN 2004CH00669 A 20060602 IN 2004-CH669 20040712  
 PRIORITY APPLN. INFO.: IN 2004-CH669 20040712

AB An improved process for the preparation of N-[1(S)-(ethoxycarbonyl)butyl]-L-alanine from norvaline Et ester and pyruvic acid involves bubbling of hydrogen gas into the reaction mixture at atmospheric pressure or a slightly neg. pressure at low temperature in the presence of palladium on carbon. Thus, hydrogenation of a mixture of 100 g Et L-norvalinate and 61 g pyruvic acid in aqueous solution (pH 9.5  $\pm$  0.2) in the presence of 5 % Pd/C for 12 h at -2 to +7°C afforded 44 g of N-[1(S)-(ethoxycarbonyl)butyl]-L-alanine.

RX(1) OF 1 A + B ==> C



RX(1) RCT A 39256-85-4

STAGE(1)

RGT D 1310-73-2 NaOH  
 SOL 7732-18-5 Water  
 CON 0 - 5 deg C, pH 7.0

STAGE(2)

RCT B 127-17-3  
 RGT D 1310-73-2 NaOH  
 SOL 7732-18-5 Water  
 CON 0 - 5 deg C, pH 9.5

STAGE(3)

RGT E 1333-74-0 H2  
 CAT 7440-05-3 Pd  
 SOL 7732-18-5 Water  
 CON 12 hours, -2 - 7 deg C

STAGE(4)

RGT F 12408-02-5 H+  
 CON neutralized

PRO C 82834-12-6  
 NTE stereoselective

L2 ANSWER 2 OF 4 CASREACT COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 143:367597 CASREACT [Full-text](#)  
 TITLE: Process for the preparation of perindopril  
 INVENTOR(S): Kankan, Rajendra Narayanrao; Rao, Dharmaraj  
 Ramachandra  
 PATENT ASSIGNEE(S): Neopharma Limited, UK  
 SOURCE: Brit. UK Pat. Appl., 21 pp.

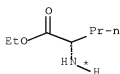
DOCUMENT TYPE: CODEN: BAXXDU  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: 1 English  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2413128	A	20051019	GB 2004-8258	20040413
AU 2005232938	A1	20051027	AU 2005-232938	20050407
CA 2562843	A1	20051027	CA 2005-2562843	20050407
WO 2005100317	A1	20051027	WO 2005-GB1355	20050407
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1751107	A1	20070214	EP 2005-732439	20050407
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2007532616	T	20071115	JP 2007-507836	20050407
IN 2006DN06462	A	20070831	IN 2006-DN6462	20061101
KR 2007054142	A	20070528	KR 2006-723684	20061113
US 20070185335	A1	20070809	US 2007-599918	20070409
PRIORITY APPLN. INFO.:			GB 2004-8258	20040413
			WO 2005-GB1355	20050407

OTHER SOURCE(S): MARPAT 143:367597

AB A process for preparing perindopril or a pharmaceutically-acceptable salt comprises coupling a 4-halo-, 4-alkoxy- or 4-nitrobenzyl ester of (2S,3aS,7aS)-2-carboxyoctahydroindole with N-[(S)-1-carbethoxybutyl]-L-alanine (1) in the presence of DCC and HOBT, followed by catalytic hydrolysis. The starting ester was obtained from (S)-indoline-2-carboxylic acid by hydrogenation-esterification and 1 was obtained from norvaline Et ester and pyruvic acid under catalytic hydrogenation conditions. The method was applied to the synthesis perindopril erbumine (20.5 g obtained from 24 g 4-chlorobenzyl ester and 21.26 g 1).

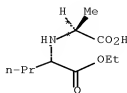
RX(1) OF 10 A + B ==> C...



A



B



C

RX(1) RCT A 46918-51-2

STAGE(1)

RGT D 1310-73-2 NaOH  
SOL 64-17-5 EtOH  
CON 30 minutes, 10 deg C

STAGE(2)

RCT B 127-17-3  
SOL 64-17-5 EtOH  
CON 30 minutes, 10 deg C

STAGE(3)

RGT E 1333-74-0 H2  
CAT 7440-05-3 Pd  
CON 8 hours, room temperature, 7 atm

PRO C 82634-12-6

NTE stereoselective

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 4 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 135:137711 CASREACT [Full-text](#)

TITLE: Synthesis of N-[(S)-1-carboxybutyl]-(S)-alanine esters  
for synthesis of perindopril

INVENTOR(S): Souvie, Jean-Claude

PATENT ASSIGNEE(S): Adir et Compagnie, Fr.

SOURCE: PCT Int. Appl., 8 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

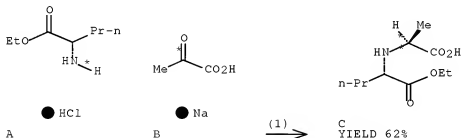
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001056353	A2	20010809	WO 2001-FR959	20010330
WO 2001056353	A3	20020418		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
FR 2807037	A1	20011005	FR 2000-4112	20000331
FR 2807037	B1	20020510		
CA 2404700	A1	20010809	CA 2001-2404700	20010330
CA 2404700	C	20070220		
AU 2001048433	A	20010814	AU 2001-48433	20010330
HU 2001001335	A2	20011128	HU 2001-1335	20010330
HU 2001001335	A3	20021128		

EP 1268398	A2	20030102	EP 2001-921440	20010330
EP 1268398	B1	20050608		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003534241	T	20031118	JP 2001-556065	20010330
JP 3930322	B2	20070613		
BR 2001009609	A	20040113	BR 2001-9609	20010330
NZ 521324	A	20040326	NZ 2001-521324	20010330
EE 200200553	A	20040415	EE 2002-553	20010330
EE 5079	B1	20081015		
CN 1171855	C	20041020	CN 2001-807493	20010330
AU 2001248433	B2	20041028	AU 2001-248433	20010330
AT 297377	T	20050615	AT 2001-921440	20010330
PT 1268398	T	20050930	PT 2001-921440	20010330
ES 2242743	T3	20051116	ES 2001-921440	20010330
AP 1483	A	20051231	AP 2002-2628	20010330
W: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW				
IN 2002MU00596	A	20040417	IN 2002-MU596	20020703
ZA 2002007150	A	20030905	ZA 2002-7150	20020905
IN 2002MN01255	A	20040626	IN 2002-MN1255	20020913
US 20030045744	A1	20030306	US 2002-221973	20020916
US 6818788	B2	20041116		
MX 2002009378	A	20030212	MX 2002-9378	20020925
NO 2002004616	A	20020926	NO 2002-4616	20020926
BG 107234	A	20030731	BG 2002-107234	20021030
HK 1053301	A1	20050318	HK 2003-105541	20030801
PRIORITY APPLN. INFO.:			FR 2000-4112	20000331
			WO 2001-FR959	20010330

OTHER SOURCE(S): MARPAT 135:137711

AB Title alanine derivs. (S)-RO2CCHPr-L-Ala-OH (R = C1-C6 alkyl) were prepared by condensation of sodium pyruvate with (S)-RO2CCHPrNH2.HCl under hydrogen pressure and 5% Pd/C as catalyst. In an example, hydrogenation of a mixture of 3 kg (S)-Et norvalinate hydrochloride and 2 kg sodium pyruvate in NaOH aqueous solution over 5% Pd/C at 35° and 1.2 bar pressure afforded 62% N-[(S)-1-carbethoxybutyl]-(S)-alanine.

RX(1) OF 1 A + B ==> C



RX(1) RCT A 40916-51-2, B 113-24-6  
 RGT D 1310-73-2 NaOH, E 1333-74-0 H2  
 PRO C 82834-12-6  
 CAT 7440-05-3 Pd

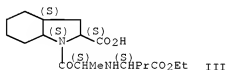


SOL 7732-18-5 Water  
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 4 CASREACT COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 111:134746 CASREACT Full-text  
 TITLE: Preparation of N-[(alkoxycarbonyl)alkyl]-L-alanines as  
 intermediates for carboxyalkyl dipeptides  
 INVENTOR(S): Vincent, Michel; Baliarda, Jean; Marchand, Bernard;  
 Remond, Georges  
 PATENT ASSIGNEE(S): ADIR, Fr.  
 SOURCE: Eur. Pat. Appl., 11 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 308340	A1	19890322	EP 1988-402338	19880916
EP 308340	B1	19910313		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FR 2620699	A1	19890324	FR 1987-12901	19870917
FR 2620699	B1	19900601		
CA 1340570	C	19990601	CA 1988-577077	19880907
DK 8805150	A	19890318	DK 1988-5150	19880915
DK 172005	B1	19970915		
AU 8822355	A	19890323	AU 1988-22355	19880916
AU 606992	B2	19910221		
JP 01110652	A	19890427	JP 1988-232124	19880916
JP 06099373	B	19941207		
ZA 8806930	A	19890530	ZA 1988-6930	19880916
US 4902817	A	19900220	US 1988-245353	19880916
AT 61566	T	19910315	AT 1988-402338	19880916
ES 2033451	T3	19930316	ES 1988-402338	19880916
PRIORITY APPLN. INFO.:			FR 1987-12901	19870917
			EP 1988-402338	19880916

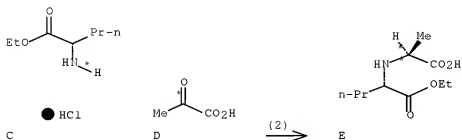
OTHER SOURCE(S): MARPAT 111:134746  
 GI



AB The title compds., (S,S)-HO2CCHMeNHCHR1CO2R2 (I; R1 = alkyl; R2 = H, alkyl),  
 useful as intermediates for carboxyalkyl dipeptides R3CO-Q-COCHMeNHCHR2 (II;  
 R3 = H, alkyl; Q = a residue of indoline, isoindoline, tetrahydroquinoline,  
 perhydroindole, perhydroisoindole, perhydroisoquinoline, etc.), notably  
 perindopril (III), an antihypertensive, are prepared via esterification of  
 (S)-H2NCHR1CO2H (IV) with R2OH and reaction of the resulting (S)-H2NCHR1CO2R2  
 with pyruvic acid under catalytic hydrogenation conditions. (S)-H2NCHPrCO2Et

(preparation given) was reacted with pyruvic acid under hydrogenation in the presence of Pd/C to give (S,S)-HO2CCHMeNHCHPrCO2Et.

RX(2) OF 3 ...C + D ==> E



RX(2) RCT C 40918-51-2, D 127-17-3  
PRO E 82834-12-6

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 13:57:33 ON 08 MAR 2009